# Kai-Kit Wong

List of Publications by Year
in descending order

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|---|---|---|---|
| 338<br>papers | 13,430<br>citations | 28274<br>55<br>h-index | 30922<br>102<br>g-index |
| 340<br>all docs | 340<br>docs citations | 340<br>times ranked | 8113<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | A Survey of Physical Layer Security Techniques for 5G Wireless Networks and Challenges Ahead. IEEE Journal on Selected Areas in Communications, 2018, 36, 679-695. | 14.0 | 550 |
| 2 | User Association in 5G Networks: A Survey and an Outlook. IEEE Communications Surveys and Tutorials, 2016, 18, 1018-1044. | 39.4 | 462 |
| 3 | UAV-Assisted Emergency Networks in Disasters. IEEE Wireless Communications, 2019, 26, 45-51. | 9.0 | 443 |
| 4 | Power Scaling of Uplink Massive MIMO Systems With Arbitrary-Rank Channel Means. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 966-981. | 10.8 | 435 |
| 5 | Optimal Cooperative Jamming to Enhance Physical Layer Security Using Relays. IEEE Transactions on Signal Processing, 2011, 59, 1317-1322. | 5.3 | 308 |
| 6 | Bayes-Optimal Joint Channel-and-Data Estimation for Massive MIMO With Low-Precision ADCs. IEEE Transactions on Signal Processing, 2016, 64, 2541-2556. | 5.3 | 290 |
| 7 | Ergodic Capacity Analysis of Amplify-and-Forward MIMO Dual-Hop Systems. IEEE Transactions on Information Theory, 2010, 56, 2204-2224. | 2.4 | 282 |
| 8 | Channel Estimation for Massive MIMO Using Gaussian-Mixture Bayesian Learning. IEEE Transactions on Wireless Communications, 2015, 14, 1356-1368. | 9.2 | 245 |
| 9 | Wireless Powered Cooperation-Assisted Mobile Edge Computing. IEEE Transactions on Wireless Communications, 2018, 17, 2375-2388. | 9.2 | 245 |
| 10 | MIMO Transmission Through Reconfigurable Intelligent Surface: System Design, Analysis, and Implementation. IEEE Journal on Selected Areas in Communications, 2020, 38, 2683-2699. | 14.0 | 242 |
| 11 | Generalized Multiuser Orthogonal Space-Division Multiplexing. IEEE Transactions on Wireless Communications, 2004, 3, 1969-1973. | 9.2 | 236 |
| 12 | Robust Cognitive Beamforming With Bounded Channel Uncertainties. IEEE Transactions on Signal Processing, 2009, 57, 4871-4881. | 5.3 | 235 |
| 13 | UAV-Assisted Relaying and Edge Computing: Scheduling and Trajectory Optimization. IEEE Transactions on Wireless Communications, 2019, 18, 4738-4752. | 9.2 | 224 |
| 14 | Adaptive antennas at the mobile and base stations in an OFDM/TDMA system. IEEE Transactions on Communications, 2001, 49, 195-206. | 7.8 | 199 |
| 15 | Dual-hop systems with noisy relay and interference-limited destination. IEEE Transactions on Communications, 2010, 58, 764-768. | 7.8 | 199 |
| 16 | Joint Spectrum and Power Allocation for D2D Communications Underlaying Cellular Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 2182-2195. | 6.3 | 172 |
| 17 | Outage Analysis of Decode-and-Forward Cognitive Dual-Hop Systems With the Interference Constraint in Nakagami-$m$ Fading Channels. IEEE Transactions on Vehicular Technology, 2011, 60, 2875-2879. | 6.3 | 171 |
| 18 | State of the Art, Taxonomy, and Open Issues on Cognitive Radio Networks with NOMA. IEEE Wireless Communications, 2018, 25, 100-108. | 9.0 | 166 |

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| 19 | On Capacity of Large-Scale MIMO Multiple Access Channels with Distributed Sets of Correlated Antennas. IEEE Journal on Selected Areas in Communications, 2013, 31, 133-148. | 14.0 | 156 |
| 20 | Energy Efficiency Optimization for NOMA With SWIPT. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 452-466. | 10.8 | 152 |
| 21 | Collaborative-Relay Beamforming With Perfect CSI: Optimum and Distributed Implementation. IEEE Signal Processing Letters, 2009, 16, 257-260. | 3.6 | 139 |
| 22 | SWIPT in MISO Multicasting Systems. IEEE Wireless Communications Letters, 2014, 3, 277-280. | 5.0 | 139 |
| 23 | Ergodic Rate Analysis for Multipair Massive MIMO Two-Way Relay Networks. IEEE Transactions on Wireless Communications, 2015, 14, 1480-1491. | 9.2 | 138 |
| 24 | Secure Communications in Millimeter Wave Ad Hoc Networks. IEEE Transactions on Wireless Communications, 2017, 16, 3205-3217. | 9.2 | 133 |
| 25 | Robust beamforming in cognitive radio. IEEE Transactions on Wireless Communications, 2010, 9, 570-576. | 9.2 | 122 |
| 26 | IRS-Assisted Secure UAV Transmission via Joint Trajectory and Beamforming Design. IEEE Transactions on Communications, 2022, 70, 1140-1152. | 7.8 | 122 |
| 27 | Programmable metasurface–based RF chain–free 8PSK wireless transmitter. Electronics Letters, 2019, 55, 417-420. | 1.0 | 121 |
| 28 | Robust Chance-Constrained Secure Transmission for Cognitive Satellite–Terrestrial Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 4208-4219. | 6.3 | 112 |
| 29 | Performance enhancement of multiuser MIMO wireless communication systems. IEEE Transactions on Communications, 2002, 50, 1960-1970. | 7.8 | 102 |
| 30 | Robust Collaborative-Relay Beamforming. IEEE Transactions on Signal Processing, 2009, 57, 3130-3143. | 5.3 | 94 |
| 31 | Energy Efficiency Optimization With SWIPT in MIMO Broadcast Channels for Internet of Things. IEEE Internet of Things Journal, 2018, 5, 2605-2619. | 8.7 | 88 |
| 32 | A geometric approach to improve spectrum efficiency for cognitive relay networks. IEEE Transactions on Wireless Communications, 2010, 9, 268-281. | 9.2 | 85 |
| 33 | Cooperative Cognitive Networks: Optimal, Distributed and Low-Complexity Algorithms. IEEE Transactions on Signal Processing, 2013, 61, 2778-2790. | 5.3 | 84 |
| 34 | Efficient High-Performance Decoding for Overloaded MIMO Antenna Systems. IEEE Transactions on Wireless Communications, 2007, 6, 1833-1843. | 9.2 | 83 |
| 35 | Masked Beamforming for Multiuser MIMO Wiretap Channels with Imperfect CSI. IEEE Transactions on Wireless Communications, 2012, 11, 544-549. | 9.2 | 83 |
| 36 | Masked Beamforming in the Presence of Energy-Harvesting Eavesdroppers. IEEE Transactions on Information Forensics and Security, 2015, 10, 40-54. | 6.9 | 82 |

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| 37 | Massive Access in Cell-Free Massive MIMO-Based Internet of Things: Cloud Computing and Edge Computing Paradigms. IEEE Journal on Selected Areas in Communications, 2021, 39, 756-772. | 14.0 | 81 |
| 38 | To Harvest and Jam: A Paradigm of Self-Sustaining Friendly Jammers for Secure AF Relaying. IEEE Transactions on Signal Processing, 2015, 63, 6616-6631. | 5.3 | 80 |
| 39 | Capacity Bounds for MIMO Nakagami-$m$ Fading Channels. IEEE Transactions on Signal Processing, 2009, 57, 3613-3623. | 5.3 | 79 |
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| 42 | Statistical Eigenmode-Based SDMA for Two-User Downlink. IEEE Transactions on Signal Processing, 2012, 60, 5371-5383. | 5.3 | 72 |
| 43 | Efficient Downlink Channel Reconstruction for FDD Multi-Antenna Systems. IEEE Transactions on Wireless Communications, 2019, 18, 3161-3176. | 9.2 | 72 |
| 44 | UAV-Enabled SWIPT in IoT Networks for Emergency Communications. IEEE Wireless Communications, 2020, 27, 140-147. | 9.0 | 69 |
| 45 | Wireless Powered Cooperative Jamming for Secrecy Multi-AF Relaying Networks. IEEE Transactions on Wireless Communications, 2016, 15, 7971-7984. | 9.2 | 68 |
| 46 | Learning Rate Optimization for Federated Learning Exploiting Over-the-Air Computation. IEEE Journal on Selected Areas in Communications, 2021, 39, 3742-3756. | 14.0 | 68 |
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| 50 | Large System Analysis of Cooperative Multi-Cell Downlink Transmission via Regularized Channel Inversion with Imperfect CSIT. IEEE Transactions on Wireless Communications, 2013, 12, 4801-4813. | 9.2 | 62 |
| 51 | On the Sum-Rate of Multiuser MIMO Uplink Channels with Jointly-Correlated Rician Fading. IEEE Transactions on Communications, 2011, 59, 2883-2895. | 7.8 | 61 |
| 52 | Hybrid Evolutionary-Based Sparse Channel Estimation for IRS-Assisted mmWave MIMO Systems. IEEE Transactions on Wireless Communications, 2022, 21, 1586-1601. | 9.2 | 61 |
| 53 | Transmit Beamforming in Rayleigh Product MIMO Channels: Capacity and Performance Analysis. IEEE Transactions on Signal Processing, 2008, 56, 5204-5221. | 5.3 | 59 |
| 54 | Wireless-Powered Edge Computing With Cooperative UAV: Task, Time Scheduling and Trajectory Design. IEEE Transactions on Wireless Communications, 2020, 19, 8083-8098. | 9.2 | 59 |

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| 55 | Multi-Objective Optimization for UAV-Assisted Wireless Powered IoT Networks Based on Extended DDPG Algorithm. IEEE Transactions on Communications, 2021, 69, 6361-6374. | 7.8 | 59 |
| 56 | Downlink massive distributed antenna systems scheduling. IET Communications, 2015, 9, 1006-1016. | 2.2 | 58 |
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| 65 | Massive MIMO in Spectrum Sharing Networks: Achievable Rate and Power Efficiency. IEEE Systems Journal, 2017, 11, 20-31. | 4.6 | 51 |
| 66 | Secure Two-Way Transmission via Wireless-Powered Untrusted Relay and External Jammer. IEEE Transactions on Vehicular Technology, 2018, 67, 8451-8465. | 6.3 | 51 |
| 67 | Minimum Throughput Maximization for Multi-UAV Enabled WPCN: A Deep Reinforcement Learning Method. IEEE Access, 2020, 8, 9124-9132. | 4.2 | 51 |
| 68 | Maximizing the Sum-Rate and Minimizing the Sum-Power of a Broadcast 2-User 2-Input Multiple-Output Antenna System Using a Generalized Zeroforcing Approach. IEEE Transactions on Wireless Communications, 2006, 5, 3406-3412. | 9.2 | 50 |
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| 86 | Joint 3D Trajectory and Power Optimization for UAV-Aided mmWave MIMO-NOMA Networks. IEEE Transactions on Communications, 2021, 69, 2346-2358. | 7.8 | 44 |
| 87 | Joint Resource Allocation for Device-to-Device Communications Underlaying Uplink MIMO Cellular Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 41-54. | 14.0 | 43 |
| 88 | Location Identification of Power Line Outages Using PMU Measurements With Bad Data. IEEE Transactions on Power Systems, 2016, 31, 3624-3635. | 6.5 | 43 |
| 89 | Multi-Agent Reinforcement Learning-Based Buffer-Aided Relay Selection in IRS-Assisted Secure Cooperative Networks. IEEE Transactions on Information Forensics and Security, 2021, 16, 4101-4112. | 6.9 | 43 |
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| 91 | Optimizing Cache Placement for Heterogeneous Small Cell Networks. IEEE Communications Letters, 2017, 21, 120-123. | 4.1 | 42 |
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| 99 | Secrecy Performance Analysis for TAS-MRC System With Imperfect Feedback. IEEE Transactions on Information Forensics and Security, 2015, 10, 1617-1629. | 6.9 | 40 |
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| 101 | Robust Power-Splitting SWIPT Beamforming for Broadcast Channels. IEEE Communications Letters, 2016, 20, 181-184. | 4.1 | 39 |
| 102 | NOMA-based UAV-aided networks for emergency communications. China Communications, 2020, 17, 54-66. | 3.2 | 39 |
| 103 | Content Placement in Cache-Enabled Sub-6 GHz and Millimeter-Wave Multi-Antenna Dense Small Cell Networks. IEEE Transactions on Wireless Communications, 2018, 17, 2843-2856. | 9.2 | 38 |
| 104 | Resource Allocation for Enhancing Offloading Security in NOMA-Enabled MEC Networks. IEEE Systems Journal, 2021, 15, 3789-3792. | 4.6 | 38 |
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| 107 | Safeguarding massive MIMO aided hetnets using physical layer security. , 2015, , . | | 36 |
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| 109 | A Lightweight Secure and Resilient Transmission Scheme for the Internet of Things in the Presence of a Hostile Jammer. IEEE Internet of Things Journal, 2021, 8, 4373-4388. | 8.7 | 34 |
| 110 | Robust Design for Intelligent Reflecting Surface-Assisted Secrecy SWIPT Network. IEEE Transactions on Wireless Communications, 2022, 21, 4133-4149. | 9.2 | 34 |
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| 113 | Performance Limits of Fluid Antenna Systems. IEEE Communications Letters, 2020, 24, 2469-2472. | 4.1 | 32 |
| 114 | Optimizing DF Cognitive Radio Networks With Full-Duplex-Enabled Energy Access Points. IEEE Transactions on Wireless Communications, 2017, 16, 4683-4697. | 9.2 | 31 |
| 115 | Secure SWIPT by Exploiting Constructive Interference and Artificial Noise. IEEE Transactions on Communications, 2019, 67, 1326-1340. | 7.8 | 31 |
| 116 | Decoupling or Learning: Joint Power Splitting and Allocation in MC-NOMA With SWIPT. IEEE Transactions on Communications, 2020, 68, 5834-5848. | 7.8 | 31 |
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| 129 | Optimization for Maximizing Sum Secrecy Rate in SWIPT-Enabled NOMA Systems. IEEE Access, 2018, 6, 43440-43449. | 4.2 | 27 |
| 130 | Multi-Objective Optimization for Spectrum and Energy Efficiency Tradeoff in IRS-Assisted CRNs With NOMA. IEEE Transactions on Wireless Communications, 2022, 21, 6627-6642. | 9.2 | 27 |
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